

AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended) An oscillator comprising:

a resonant circuit generating a resonant signal and including an inductor;

a drive circuit that feeds back the resonant signal to the resonant circuit via a first node of the inductor and receives a DC voltage; and

an output terminal connected to a ~~given~~ second node of the ~~resonant circuit~~ inductor, an oscillation signal of the oscillator being output via the output terminal, the inductor being isolated from the DC voltage.

Claim 2. (Currently Amended) The oscillator as claimed in claim 1, wherein the first node is an intermediate node of the inductor, and the second node is an end of the inductor :

~~the resonant circuit includes an inductor; and~~

~~the output terminal is connected to one end of the inductor.~~

Claim 3. (Currently Amended) The oscillator as claimed in claim 1, wherein the first node and the second node are an identical node that is an intermediate node of the inductor :

~~the resonant circuit includes an inductor; and~~

~~the output terminal is connected to an intermediate node of the inductor located between two ends of the inductor.~~

Claim 4. (Currently Amended) The oscillator as claimed in claim 1, further comprising a matching circuit including a capacitor connected to the second node of the inductor resonant circuit via the output terminal of the oscillator.

Claim 5. (Currently Amended) ~~The oscillator as claimed in claim 1,~~ An oscillator comprising:

a resonant circuit generating a resonant signal;

a drive circuit that feeds back the resonant signal to the resonant circuit;

an output terminal connected to a given node of the resonant circuit, an oscillation signal of the oscillator being output via the output terminal;

~~further comprising:~~

a matching circuit including a capacitor connected to the resonant circuit via the output terminal of the oscillator; and

a substrate on which the resonant circuit and the drive circuit are formed,

the capacitor of the matching circuit including a conductive pattern provided to the substrate.

Claim 6. (Currently Amended) ~~The oscillator as claimed in claim 1,~~ An oscillator comprising:

a resonant circuit generating a resonant signal;

a drive circuit that feeds back the resonant signal to the resonant circuit;

an output terminal connected to a given node of the resonant circuit, an oscillation signal of the oscillator being output via the output terminal;

~~further comprising:~~

a matching circuit including a capacitor connected to the resonant circuit via the output terminal of the oscillator; and

a substrate on which the resonant circuit and the drive circuit are formed, the capacitor of the matching circuit including conductive patterns that are provided to the substrate and face each other.

Claim 7. (Currently Amended) The oscillator as claimed in claim 1, wherein:

~~the resonant circuit includes an inductor; and~~

the drive circuit comprises a transistor having a base that receives the resonant signal, a collector receiving a power supply voltage, and an emitter connected to the first terminal of the inductor of the resonant circuit.

Claim 8. (Currently Amended) The oscillator as claimed in claim 1, wherein:

the resonant circuit includes an inductor;

the drive circuit comprises a transistor having a base that receives the resonant signal, a collector receiving a power supply voltage, and an emitter coupled to the first terminal of the inductor of the resonant circuit via an emitter bias resistor.

Claim 9. (Currently Amended) The oscillator as claimed in claim 1, wherein:

the resonant circuit includes an inductor;

the drive circuit comprises a transistor having a base that receives the resonant signal, a collector receiving a power supply voltage, and an emitter coupled to the first terminal of the inductor of the resonant circuit; and

the oscillator further comprises a matching circuit having a capacitor coupled to the emitter of the drive circuit.

Claim 10. (Currently Amended) The oscillator as claimed in claim 1, wherein:

the resonant circuit includes an inductor;

the drive circuit comprises a transistor having a base that receives the resonant signal, a collector receiving a power supply voltage, and an emitter coupled to the first terminal of the inductor of the resonant circuit; and

the oscillator further comprises a matching circuit having a capacitor coupled to the inductor via the output terminal.

Claim 11. (Original) The oscillator as claimed in claim 1, wherein the resonant circuit includes an inductor formed by a transmission line.

Claim 12. (Original) The oscillator as claimed in claim 1, wherein the resonant circuit includes an inductor formed by a micro stripline.

Claim 13. (Original) The oscillator as claimed in claim 1, wherein the resonant circuit

includes a variable capacitance diode that receives a control signal via a control terminal of the oscillator, so that an oscillation frequency can be adjusted externally.